Scope of Accreditation

(Measurement Method)

Accreditation Number: VLAC-008-1

Expiration Date: December 31, 2025

〔Name of Laboratory〕

Intertek Japan K.K.

〔Test site name〕

Kashima Laboratory

〔Test site Address〕

298-6 Sada, Kashima-shi, Ibaraki 314-0027 Japan

〔Measurement Method〕

Emission test

Radiated disturbance: Enclosure Port

Disturbance electric field test

[Test condition] On the reference ground plane, Measurement distance: 3 m / 10 m
Measurement Frequency Range: 30 MHz - 1 GHz

[Test condition] Quasi Free Space, Measurement Frequency Range: 1 GHz - 40 GHz

Disturbance magnetic field strength measurement

[Test condition] Loop Antenna, Three axis loop antenna, Isotropic probe

Disturbance power measurement [Test condition] Absorbing clamp

Conducted disturbance Measurement: AC mains port / DC power line port

Voltage measurement [Test condition] AMN, High impedance voltage probe

Conducted disturbance Measurement: Telecommunication port

Voltage measurement [Test condition] AAN, Capacitive voltage probe

Current measurement [Test condition] Current probe

Conducted disturbance Measurement:
Antenna port, RF modulator output port, Tuner port, fiber port

Wanted signal and disturbance voltage test at the RF output, Selective voltmeter

Immunity test

Electro static discharge test	**Contact discharge, Air discharge, Direct discharge**
Radiated electromagnetic field strength	**Measurement frequency range: 80 MHz - 6 GHz**
Radiated fields in close proximity	**Measurement Frequency Range: 9 kHz - 26 MHz**
Electrical fast transient/burst (EFT/B)	**Mains port, Telecommunication/Signal port**
Surge	**Mains port, Telecommunication/Signal port**

RF conducted interference

Mains port measurement frequency range: 150 kHz - 230 MHz

Telecommunication/Signal port measurement frequency range: 150 kHz - 230 MHz

Radiated magnetic field

Interruptions and Voltage variations

Harmonic current

Harmonic current test

Voltage changes, Voltage fluctuations and Flicker test

Telecommunication equipment performance 1
Intentional Radiators (FCC Part 15 Subpart C)
Based on European standards

Telecommunication equipment performance 2
Magnetic field strength [Test condition] Magnetic probe
Electric field strength [Test condition] Electric field probe
Electromagnetic field exposure:
Conducted Power Measurement
Radiated Power Measurement

Voluntary EMC Laboratory Accreditation Center Inc.

Scope of Accreditation

（Test standards）

Accreditation Number: VLAC-008-1
Expiration Date: December 31, 2025

〔Name of Laboratory〕

Intertek Japan K.K.

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〔Test site Address〕

298-6 Sada, Kashima-shi, Ibaraki 314-0027 Japan

〔Test Standards〕

Emission test

VCCI Technical Requirements: VCCI-CISPR 32:2016[*1*2]
Technical requirements under the Electrical Appliances and Materials safety Act appendix 10 Chapter 2, 4, 5, 7 and 9
J55014-1(H27), J55015(H29), CISPRJ 15:2017, J55032(H29)[*1*2,] CISPRJ 32:2017[*1*2]

FCC 47 CFR Part 15 Subpart B: ANSI C63.4-2014 (Up to 40 GHz)
FCC 47 CFR Part 15 Subpart B: ANSI C63.4a-2017 (Up to 40 GHz)
FCC 47 CFR Part 18: FCC MP-5 (February 1986) (Up to 40 GHz)

CISPR 11:2009+A1:2010 / 2015+A1:2016+A2:2019
CISPR 14-1:2005+A1:2008+A2:2011 / 2016 / 2020, CISPR 15:2013+A1:2015 / 2018
CISPR 22:2008, CISPR 32:2012[*1 *2] / 2015+A1:2019[*1*2], ISO 8102-1:2020
IEC 61000-6-3:2006+A1:2010 / 2020, IEC 61000-6-4:2006+A1:2010 / 2018, IEC 61000-6-8:2020

EN 12015:2020, EN 55011:2009+A1:2010 / 2016+A1:2017+A11:2020+A2:2021
EN 55014-1:2017+A11:2020, EN IEC 55014-1:2021, EN IEC 55015:2019+A11:2020
EN 55032:2015+A11:2020+A1:2020[*1 *2], EN 55103-1:2009
EN 61000-6-3:2007+A1:2011, EN IEC 61000-6-3:2021, EN 61000-6-4:2007+A1:2011
EN IEC 61000-6-4:2019, EN IEC 61000-6-8:2020

AS CISPR 11:2017, AS CISPR 14.1:2018, AS CISPR 15:2017
AS/NZS CISPR 32:2015+A1:2020[*1*2]
AS/NZS 3200.1.2:2005, AS/NZS 61000.6.3:2021, AS/NZS 61000.6.4:2012

ICES-001(Issue5), ICES-003(Issue7), ICES-005(Issue5), ICES-Gen(Issue1+A1:2021)

KS C 9811:2019, KS C 9610-6-3:2023, KS C 9610-6-4:2022
KS C 9816-2-1:2020, KS C 9816-2-2:2020, KS C 9816-2-3:2020

[*1] **Except for measurement in a FAR.**
[*2] **Except for broadcast radio receivers.**

The following groups of test standards are included in Emission tests, Immunity tests and Harmonic Test in Public Low Voltage Systems. [Note.1]

IEC 61326-1:2012 / 2020, IEC 61326-2-1:2012 /-2-1:2020 /-2-2:2012 /-2-2:2020 /-2-3:2012 /-2-3:2020 /-2-4:2012 /-2-4:2020 /-2-5:2012 /-2-5:2020 /-2-6:2012 /-2-6:2020
EN 61326-1:2013, EN IEC 61326-1:2021, EN 61326-2-1:2013 /-2-2:2013 /-2-3:2013 /-2-4:2013 /-2-5:2013 /-2-6:2013, EN IEC 61326-2-1:2021 /-2-2:2021 /-2-3:2021 /-2-4:2021 /-2-5:2021 /-2-6:2021
JIS C 61326-1:2017 / 2022, JIS C 61326-2-1:2017 /-2-1:2022 /-2-2:2017 /-2-3:2019 /-2-6:2019 /-2-6:2023

IEC 60601-1-2:2014+A1:2020, IEC 60601-2-1:2020 /-2-2:2017+A1:2023
/-2-3:2012+A1:2016+A2:2022 /-2-4:2010+A1:2018 /-2-5:2009 /-2-6:2012+A1:2016+A2:2022
/-2-8:2010+A1:2015 /-2-10:2012+A1:2016+A2:2023 /-2-11:2013 /-2-12:2001 /-2-16:2018 /-2-17:2013
/-2-18:2009 /-2-19:2020 /-2-20:2020 /-2-21:2020 /-2-22:2019 /-2-23:2011 /-2-24:2012 /-2-25:2011
/-2-26:2012 /-2-27:2011 /-2-28:2017 /-2-29:2008 /-2-31:2020 /-2-33:2022 /-2-34:2011 /-2-35:2020
/-2-36:2014 /-2-37:2007+A1:2015 /-2-39:2018 /-2-40:2016 /-2-41 :2021 /-2-43 :2022
/-2-44:2009+A1:2012+A2:2016 /-2-45:2011+A1:2015+A2:2022 /-2-47:2012 /-2-49:2018 /-2-50:2020
/-2-52:2009+A1:2015 /-2-54:2022 /-2-57:2011 /-2-62:2013 /-2-63:2012+A1:2017+A2:2021 /-2-64:2014
/-2-65:2012+A1:2017+A2:2021 /-2-66:2019 /-2-68:2014 /-2-75:2017+1:2023 /-2-76:2018
/-2-83:2019+A1:2022, IEC 80601-2-26:2019 /-2-30:2018 /-2-49:2018 /-2-58:2014+A1:2016
/-2-59:2017+A1:2023 /-2-60:2019 /-2-71:2015 /-2-77:2019 /-2-78:2019, ISO 80601-2-12:2020
/-2-13:2022 /-2-55:2018 /-2-56:2017+A1:2018 /-2-61:2017 /-2-67:2020 /-2-69:2020 /-2-70:2020
/-2-74:2021 /-2-79:2018 /-2-80:2018

EN 60601-1-2:2015+A1:2021, EN 60601-2-3:2015+A1:2016 /-2-4:2011+A1:2019 /-2-5:2015
/-2-6:2015+A1:2016 /-2-8:2015+A1:2016 /-2-10:2015+A1:2016 /-2-11:2015 /-2-12:2006 /-2-17:2015
/-2-18:2015 /-2-23:2015 /-2-24:2015 /-2-25:2015 /-2-26:2015 /-2-27:2014 /-2-29:2008+A11:2011
/-2-33:2010+A12:2016 /-2-34:2014 /-2-36:2015 /-2-37:2008+A1:2015 /-2-40:2019
/-2-44:2009+A2:2016 /-2-45:2011+A1:2015 /-2-47:2015 /-2-52:2010+A1:2015
/-2-54:2009+A1:2015+A2:2019 /-2-57:2011 /-2-62:2015 /-2-63:2015+A1:2019+A2:2021 /-2-64:2015
/-2-65:2013+A1:2020+A2:2021 /-2-68:2015, EN IEC 60601-2-1:2021 /-2-2:2018 /-2-16:2019
/-2-19:2021 /-2-20:2020 /-2-21:2021 /-2-22:2020 /-2-28:2019 /-2-31:2020 /-2-39:2019 /-2-41:2021
/-2-43:2023 /-2-50:2021 /-2-66:2020 /-2-75:2019 /-2-76:2019 /-2-83:2020+A11:2021
, EN 80601-2-58:2015+A1:2019, EN IEC 80601-2-26:2020 /-2-30:2019 /-2-49:2019
/-2-59:2019+A1:2023 /-2-60:2020 /-2-71:2018, EN ISO 80601-2-12:2020 /-2-13:2022 /-2-55:2018
/-2-56:2017+A1:2020 /-2-61:2019 /-2-67:2020 /-2-69:2020 /-2-70:2020 /-2-74:2021 /-2-79:2019
/-2-80:2019

JIS T 0601-1-2:2018 / 2023, JIS T 0601-2-2:2020 /-2-3:2015 /-2-5:2015 /-2-6:2015 /-2-10:2015
/-2-16:2022 /-2-18:2013 /-2-21:2019 /-2-24:2018 /-2-25:2014 /-2-35:2015 /-2-37:2018 /-2-39:2023
/-2-40:2005 /-2-64:2016 /-2-66:2015 /-2-201:2015 /-2-202:2015 /-2-203:2015 /-2-204:2015
/-2-205:2015 /-2-206:2015 /-2-207:2015 /-2-208:2015, JIS T 60601-2-47:2018 /-2-63:2019
/-2-65:2019 /-2-68:2019, JIS T 80601-2-55:2014 /-2-60:2021 /-2-61:2014 /-2-78:2022

Immunity test **[Including the test standards listed in Note 1.]**

CISPR 14-2:2015 / 2020, CISPR 35:2016[*3], ISO 8102-2:2021
IEC 61547:2020, IEC 61000-6-1:2005 / 2016, IEC 61000-6-2:2005 / 2016
IEC 61000-4-2:2008 /-4-3:2006+A1:2007+A2:2010 /-4-3:2020 /-4-4:2012 /-4-5:2014+A1:2017
/-4-6:2013 /-4-6:2023 /-4-8:2009 /-4-11:2020 /-4-39:2017 (9 kHz - 26 MHz)
IEC TR 60601-4-2:2016, IACS UR E10:Rev.7 / Rev.8

EN 55014-2:1997+A1:2001+A2:2008 / 2015, EN IEC 55014-2:2021, EN 55035:2017+A11:2020[*3]
EN 55103-2:2009, EN 12016:2013, EN 50130-4:2011+A1:2014
EN 61547:2009, EN IEC 61547:2023
EN 61000-6-1:2007, EN IEC 61000-6-1:2019, EN 61000-6-2:2005, EN IEC 61000-6-2:2019

EN 61000-4-2:2009 /-4-3:2006+A1:2008+A2:2010 /-4-4:2012 /-4-5:2014+A1:2017 /-4-6:2014
EN 61000-4-8:2010 /-4-39:2017 (9 kHz - 26 MHz), EN IEC 61000-4-3:2020 /-4-11:2020

AS/NZS CISPR 14.2:2021, AS/NZS 3200.1.2:2005
AS/NZS 61000.6.1:2006, AS/NZS 61000.6.2:2022
JIS C 61000-6-1:2019, JIS C 61000-6-2:2019

KS C 9610-6-1:2019, KS C 9610-6-2:2019
KS C 9610-4-2:2017 /-4-3:2017 /-4-4:2020 /-4-5:2020 /-4-6:2020 /-4-8:2017 /-4-11:2020

[*3] Except for Annex A, Annex H and xDSL Equipments.

Harmonic Test in Public Low Voltage Systems [Including the test standards listed in Note 1.]
IEC 61000-3-2:2014 / 2018+A1:2020, IEC 61000-3-3:2013+A1:2017+A2:2021
IEC 61000-3-11:2017, IEC 61000-3-12:2011
IEC 61000-6-3:2006+A1:2010 / 2020, IEC 61000-6-8:2020

EN 61000-3-2:2014, EN IEC 61000-3-2:2019 +A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021
EN IEC 61000-3-11:2019, EN 61000-3-12:2011
EN 61000-6-3:2007+A1:2011, EN IEC 61000-6-3:2021, EN IEC 61000-6-8:2020

JIS C 61000-3-2:2019
KS C 9610-3-2:2020, KS C 9610-3-3:2020

Telecommunication equipment performance 1
Intentional Radiators (FCC Part 15 Subpart C): ANSI C63.10-2013 (Up to 26.5 GHz)
Intentional Radiators (FCC Part 15 Subpart C): ANSI C63.10-2020 (Up to 26.5 GHz)
EN 300 330:V2.1.1 (Limited to Product Class 1)
EN 301 489-1:V2.2.3
EN 301 489-3:V2.1.1 / V2.3.2
EN 301 489-17:V3.2.4

Telecommunication equipment performance 2
IEC 62233:2005, IEC 62311:2019, IEC 62479:2010
EN 62233:2008, EN 62311:2008, EN IEC 62311:2020, EN 62479:2010

Voluntary EMC Laboratory Accreditation Center Inc.

The laboratory is only accredited for testing activities outlined within the test methods listed above.
If test standards do not include the edition, it means the latest one at the date of renewal (1.1, 2024).